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Avenue, Sunnyvale, CA 94086 (US); PROTIC, Vojta
[US/US] (US).

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(74) Agent: HAMILTON, Jennifer, H.; The Eclipse Group,
10453 Rainbree Lane, Northridge, CA 91326 (US).

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(71) Applicant (for all designated States except US): SIRF
TECHNOLOGY, INC. [US/US]; 148 E. Brokaw Road,
San Jose, CA 95112 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): UNDERBRINK,
Paul [US/US]; 25212 Calle Del Lago, Lake Forest, CA
92630 (US). FALK, Henry [IN/US]; 3150 Julian Av-
enue, Long Beach, CA 90808 (US). GRONEMEYER,
Steven [US/US]; 5250 N. River Boulevard, Cedar Rapids,
CA 52411 (US). DASANNACHARYA, Chittaranjan
[IN/IN]; C-306 ATS Greens 1, Sector 50, Noida 201307
(IN). NORMAN, Charles [US/US]; 6071 Softwind
Drive, Huntington Beach, CA 92647 (US). TSO, Robert
[US/US]; 8034 Linwall Street, Rosemead, CA 91770
(US). VANTALON, Nicolas [US/US]; 663 East McKinley

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(54) Title: SIGNAL PROCESSING SYSTEM FOR SATELLITE POSITIONING SIGNALS

(57) Abstract: A signal processing system for processing satellite positioning signals is described. The system comprises at least one processor and a signal processor operating under a number of operational modes. The signal processor includes at least one of a signal processing subsystem, a fast Fourier transform (FFT) subsystem, and a memory subsystem that are each dynamically and independently configurable in response to the operational modes. Further, the system includes a controller that couples to control transfer of data among the signal processing subsystem and the FFT subsystem via the memory subsystem. Configurability of the memory subsystem includes configuring the memory subsystem into regions according to the operational modes where each region is accessible in one of a number of manners according to the operational modes.

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